

ARKANSAS

Soft Pine



A HANDBOOK

for BUILDERS

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Mike Jackson, FAIA

ARKANSAS

Soft Pine

THE ALL-PURPOSE WOOD OF BALANCED
SOFT TEXTURE FOR SOUND CONSTRUCTION,
EXTERIOR TRIM AND SATIN-LIKE
INTERIOR WOODWORK AND PANELING.

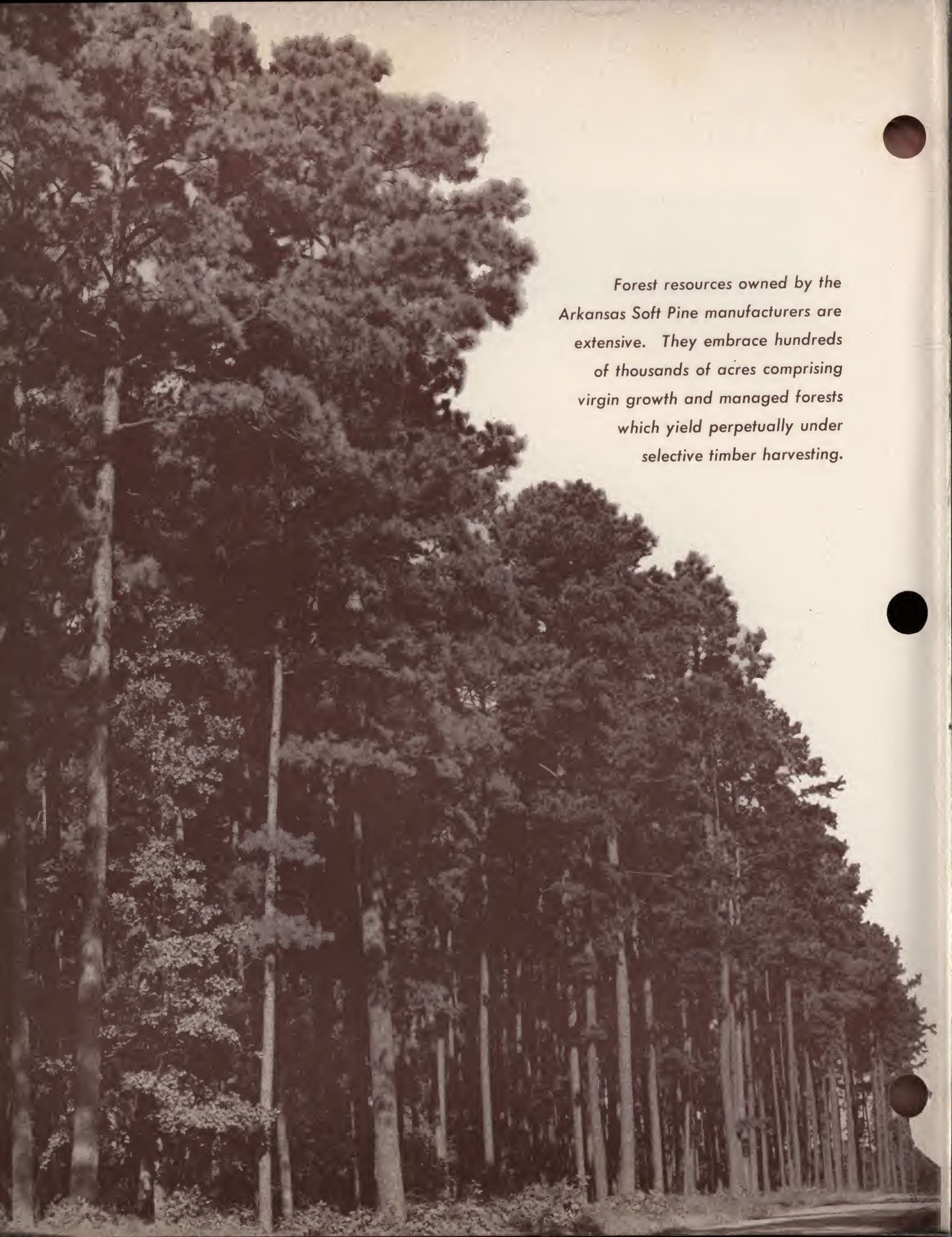


A HANDBOOK FOR BUILDERS

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Arkansas Soft Pine Bureau

BOYLE BUILDING — LITTLE ROCK, ARKANSAS



*Forest resources owned by the
Arkansas Soft Pine manufacturers are
extensive. They embrace hundreds
of thousands of acres comprising
virgin growth and managed forests
which yield perpetually under
selective timber harvesting.*

ARKANSAS SOFT PINE . . .

WHAT SPECIES IT IS



WHERE IT GROWS

Commercial southern pine is the general name for a number of closely related species consisting of . . .

SHORTLEAF (*Pinus echinata*)

LONGLEAF (*Pinus palustris*)

LOBLOLLY (*Pinus taeda*)

SLASH (*Pinus caribaea*)

Arkansas Soft Pine is shortleaf (*Pinus echinata*) of uniquely superior quality peculiar to the timber growing in the southern and western areas of Arkansas. It has been produced and marketed for more than forty years by a group of Arkansas lumber manufacturing enterprises whose plants are located in this region and whose equipment, facilities and standards are representative of the industry's best.

Arkansas Soft Pine is a trade name adopted by these companies to describe the pronounced difference between the physical character of their products and those of other pines of the South. This difference primarily is one of softer, more uniform texture, light weight, fine grain and minimum pitch which qualify the timber (*Pinus echinata*) growing in the above region. These characteristics are officially recognized by the U. S. Government in its Forest Service Bulletin No. 106 which states, "Shortleaf pine in Arkansas is generally considered of a higher grade than the same species grown in other regions. It is soft, of good color and the annual growth rings show well in the grain."

To facilitate identification of Arkansas Soft Pine by name and symbol, its manufacturers adopted and registered the above trade-mark in 1916. Since that time this mark has been stamped, labeled or tagged on all their products to assist builders, specifiers and other users in correctly recognizing this superior wood at local sources of supply.

PERMANENCE Production of Arkansas Soft Pine comprises a substantial segment of the total volume of the South's pine lumber industry. Its manufacturers compose a regional group, the individual companies of which embrace extensive fee timber holdings, large saw and planing mills, dry kilns, specialty factories, warehouses and most advanced developments in mechanized equipment. The permanent character and representative magnitude of these operations are emphasized further by systematic selective timber harvesting, conservation and reforestation practices. These factors comprise evidence as to why there is an abundance of Arkansas Soft Pine always available through the regular channels of distribution and why there will be a continuing supply . . . perpetually.



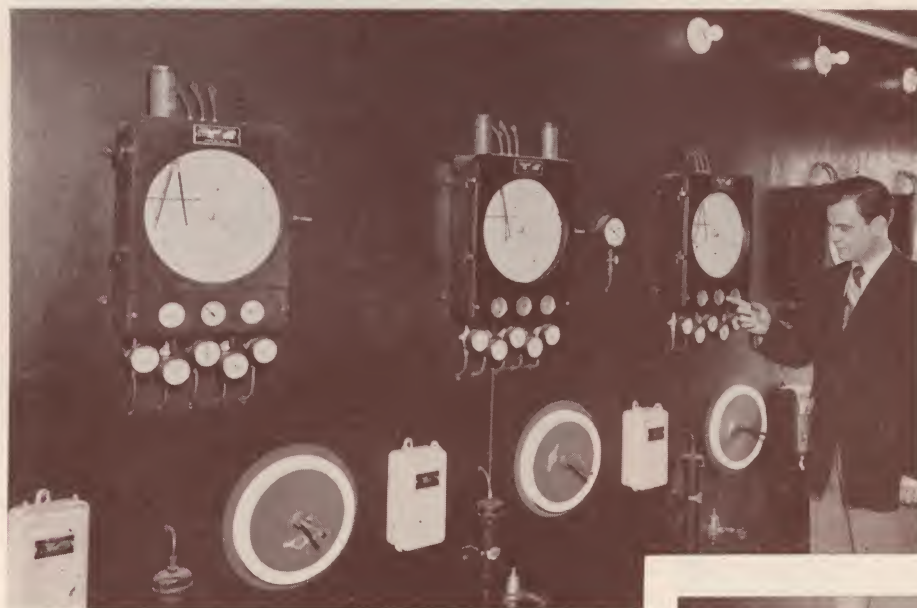
INTEGRITY OF ALL-WOOD CONSTRUCTION

There are two good reasons why so many homes and buildings of frame construction, erected a century or more ago, are in sound condition today. (1) They were built of thoroughly seasoned lumber. (2) They were framed correctly.

The assertion sometimes is made that strictly good quality lumber, equal to that referred to above, is no longer available. This is not true. On the contrary, lumber produced by representa-

tive mills today is notably superior in manufacture, seasoning and uniform high quality to that of any previous period. Arkansas Soft Pine is typical. Continuing improvement through research, experience and case histories includes proper sawing to prevent crook, limiting coarse-textured timber to boards only, selecting close-textured timber for dimension, thorough seasoning and preventing sap stain, accurate machine work, end-trimming and certified grading by official authorities.

In the light of these improvements, supervision and the traditional lower cost of correctly engineered frame construction, price advantage definitely lies with wood.



Today's advanced drying and seasoning methods comprise cross circulation kilns governed by accurate, precision automatic controls of which the adjoining panel is typical.

MOISTURE CONTENT

In these advances, notable improvements have been achieved in seasoning and drying. For instance, it now is customary to supply Arkansas Soft Pine dried to a moisture content specified to suit atmospheric conditions in which the material will be used. Shrinking and swelling have been thoroughly minimized. This conditioning is accomplished in thermostatically governed steam dry kilns unknown in pioneer days. By this process, surplus water present in all lumber as it comes from the saw is removed by scientific application of steam, humidity and forced air circulation, automatically controlled. Under this method lumber retains all the original texture and strength inherent in its timber growth.

The manufacturers of Arkansas Soft Pine have kept fully abreast of these progressive refinements and, having



Frequent precision tests for correct moisture content furnish an accurate check-up during the process of drying and seasoning.

done so, they have gone a step further for service and protection to each customer . . . namely, by identifying their products with the registered trade-mark frequently shown herein, which is stamped or labeled on the material.

PRACTICAL ECONOMIES

Definite and practical savings are to be had through use of lower priced grades for framing material which afford adequate strength, *i. e.*, by use of the right grade in the right place. Example: The southern pine industry, of which Arkansas Soft Pine manufacturers are a part, recently increased official stress values of No. 2 Grade in 2x4, 2x6, etc. This grade, now closer grained than formerly, provides ample strength for floor joists, studs and rafters at substantially less than the price of No. 1.

INSULATION AT NO EXTRA COST

Another economy factor is Arkansas Soft Pine sheathing which does double duty. Primarily it encloses, strengthens and braces the house frame, but at the same time it insulates *and at no extra cost*. That's because thoroughly seasoned wood is a natural insulation, being a non-conductor of heat and cold. Thus, an outside wall of Arkansas Soft Pine sheathing of standard 25/32" thickness keeps out as much heat as 5" of common brick, 9" of face brick, 12" of stone or 13 1/2" of concrete.



Wood Sheathing Insulates

FOR STAUNCH FRAMEWORK

Other advantages of Arkansas Soft Pine are inherent characteristics, including light weight, fine grain, close fiber, well balanced absorbing qualities, beautiful figure. Texture is tough, free from pitch and minimizes splitting. This assures tight, snug framework. When studs are nailed to

NOTE TO SPECIFICATION WRITERS: MANDATORY

All material furnished under these specifications for carpentry, flooring, finishing, woodwork, etc., shall bear the ARKANSAS SOFT PINE trade-mark and SPIB grade mark.



Extra stress values for staunch framework

foundation plates followed by sheathing, every stud is held firmly and each board hugs its stud-ding, because nails are held tenaciously in the wood's tight grip.

FOR BEAUTIFUL WOODWORK

As woodwork and paneling, Arkansas Soft Pine affords a premium value. Its satin-like surface and soft, even texture reveal the exceptional beauty inherent in grain and figure. The wood



is ideally adapted to stains, paints and enamels. Free from pitch, it effects a uniform absorption of primer or color. Finish coats are applied and worked smooth on the wood itself, not built up on a surface shell of shellac. There's no risk of checking, discoloration or raised grain.

In short, Nature herself has endowed Arkansas Soft Pine with dependable strength for staunch framework, proper qualities for well-groomed exteriors, correct physical make-up for interior woodwork.

GRADING AND GRADE-MARKS

Each grade of lumber in any species is more than the individual manufacturer's idea of that grade. It represents the *composite* opinion of the *entire industry* of the region wherein the species grows. Application of grading and grade-marking under long established practices is supervised by an industry-

wide, authorized agency. For Arkansas Soft Pine, this agency is the Southern Pine Inspection Bureau, of New Orleans, Louisiana. All grades are stamped with the grade-mark symbols of that Bureau, as illustrated here, and with which the trade and building professions are familiar.

SOUTHERN PINE INSPECTION BUREAU GRADE-MARKS

Grade-marked Arkansas Soft Pine lumber bearing the registered symbols of the Southern Pine Inspection Bureau affords assurance to the buyer that the lumber is graded in accordance with the official rules. The SPIB symbol signifies that the lumber either has been inspected and marked by a Bureau inspector or by graders at licensed mills whose grading practices are regularly supervised by the Bureau. In the symbol, left to right are the Bureau's initials, the grade name abbreviation, identification number of the inspector or of the producing mill. These designations constitute an official Bureau mark. Only mills which measure up to the required efficiency in manufacture and grading are licensed to use this mark. All Arkansas Soft Pine mills are so licensed.

Shippers of SPIB grade-marked lumber have a contractual obligation to ship their lumber in accordance with the rules and to submit their shipments to Bureau inspection if there is any question about the correctness of the grade. Also, they are obliged to abide by inspection reports of the Bureau and to pay for the cost involved in inspecting and properly grade-marking shipments that are off-grade under the rules.

Grading and designation of grades in this way comprise a certification of quality standards underwritten by the Arkansas Soft Pine manufacturers and southern pine industry as a whole. *Arkansas Soft Pine qualifies for Federal specifications as set forth in Federal Specifications MM-L-751b.*



Trained mill grader at work, the first step in lumber grading



Typical Southern Pine Inspection Bureau Grade-Marks

GRADES TO SPECIFY **

| Use | Grade Recommended |
|---|--|
| Sills on foundation wall, floor more than 18" above ground | No. 1 Dimension |
| Sills on foundation wall, floor within 18" of ground | No. 1 Dense Dimension (*) or (†) |
| Sills on posts or piers, floor more than 18" above ground | No. 1 Dense Timbers |
| Sills on posts or piers, floor within 18" of ground | No. 1 Dense Timbers (*) or (†) |
| Basement posts or columns | No. 1 Dense Timbers |
| Girders | No. 1 Dense Timbers, No. 1 Dense Dimension, or No. 1 Dense Laminated |
| Floor joists over 18" above ground | No. 1 Dense Timbers |
| Floor joists within 18" of ground | No. 1 Dense Dimension or No. 2 (††) |
| Roof rafters and ceiling joists | No. 1 or No. 2 Dimension (††) |
| Studding | No. 1 Dense, No. 1 or No. 2 Dimension (††) |
| Sub-flooring and sheathing | Arkansas Soft Pine Center-Matched, Square Edge Boards or Shiplap in No. 2 or No. 3 Grade |
| Finish flooring exposed | B & Better Edge Grain End-matched or Random length Plain end |
| Finish flooring to receive linoleum or carpet | No. 1 Common or No. 2 Common Flat Grain $\frac{3}{8}$ " thickness |
| Porch flooring | B & Better Heart Edge Grain Plain End or B & Better Flat Grain Plain End, treated |
| Drop siding, interior trim, exterior trim, window and door frames | B & Better |
| Exterior trim | B & Better (Back-primed with white lead or aluminum paint) |

†All Heart. *Preservative treated. **Arkansas Soft Pine is graded according to the Standard Grading Rules of the Southern Pine Inspection Bureau, New Orleans, La. ††Conforms to the higher stress values for No. 2 Dimension, established by the Inspection Bureau in 1948. Grading Rules will be furnished on request to the Arkansas Soft Pine Bureau.

GRADES OF ARKANSAS SOFT PINE



B & BETTER FINISH—Sizes: 1 x 4, 6, 8 and 10 inch

GRADES OF ARKANSAS SOFT PINE



"C" FINISH—Sizes: 1 x 4, 6, 8 and 10 inch

GRADES OF ARKANSAS SOFT PINE



B & BETTER EDGE GRAIN FLOORING—25/32" x 3" End-Matched

GRADES OF ARKANSAS SOFT PINE



B & BETTER FLAT GRAIN FLOORING—25/32" x 3" Plain End

GRADES OF ARKANSAS SOFT PINE



B & BETTER FLAT GRAIN FLOORING— $25/32$ " x 4" Plain End

GRADES OF ARKANSAS SOFT PINE



"C" EDGE GRAIN FLOORING—25/32" x 3" End-Matched

GRADES OF ARKANSAS SOFT PINE



"C" FLAT GRAIN FLOORING—25/32" x 4" Plain End

GRADES OF ARKANSAS SOFT PINE



"D" EDGE GRAIN FLOORING—25/32" x 3" End-Matched

GRADES OF ARKANSAS SOFT PINE



B & BETTER DROP SIDING NO. 117

GRADES OF ARKANSAS SOFT PINE



B & BETTER 6" DROP SIDING NO. 106

GRADES OF ARKANSAS SOFT PINE



"C" 6" DROP SIDING NO. 116

GRADES OF ARKANSAS SOFT PINE



NO. 1 CENTER AND END-MATCHED SHEATHING—25/32" x 6"

GRADES OF ARKANSAS SOFT PINE



NO. 2 CENTER AND END-MATCHED SHEATHING—25/32" x 6"

GRADES OF ARKANSAS SOFT PINE



NO. 1 BOARDS—Sizes: 1 x 4, 6, 8 and 10 inch

GRADES OF ARKANSAS SOFT PINE



NO. 2 BOARDS—Sizes: 1 x 4, 6, 8 and 10 inch

GRADES OF ARKANSAS SOFT PINE



NO. 3 BOARDS—Sizes: 1 x 4, 6, 8 and 10 inch

GRADES OF ARKANSAS SOFT PINE



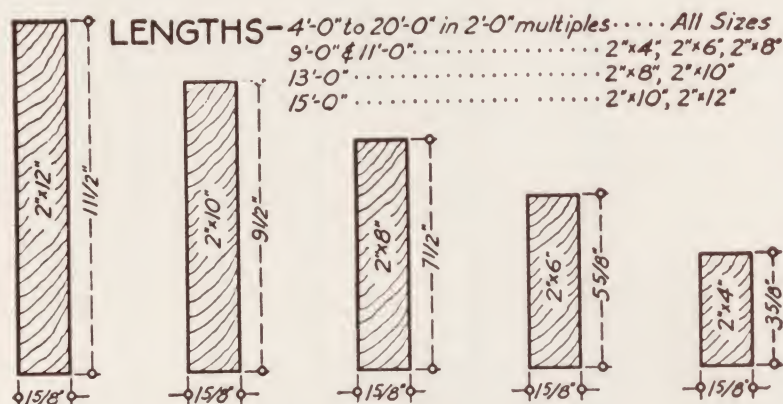
NO. 1 DIMENSION—Sizes: 2 x 4, 6, 8, 10 and 12 inch

GRADES OF ARKANSAS SOFT PINE



NO. 2 DIMENSION—Sizes: 2 x 4, 6, 8, 10 and 12 inch

ARKANSAS SOFT PINE . . . STUDS, JOISTS AND RAFTERS



STRESS VALUES FOR STUDS, JOISTS AND RAFTERS

| SPAN | 2 x 12—1700 F Grade SPACING ON CENTERS | | | | | 2 x 10—1700 F Grade SPACING ON CENTERS | | | | | SPAN | 2 x 8—1700 F Grade SPACING ON CENTERS | | | | | 2 x 6—1700 F Grade SPACING ON CENTERS | | | | |
|--------|---|-----|-----|-----|-----|---|-----|-----|-----|-----|--------|--|-----|-----|-----|-----|--|-----|-----|-----|-----|
| | 12" | 14" | 16" | 18" | 20" | 12" | 14" | 16" | 18" | 20" | | 12" | 14" | 16" | 18" | 20" | 12" | 14" | 16" | 18" | 20" |
| 10 ft. | 400 | 343 | 300 | 267 | 240 | 272 | 233 | 204 | 181 | 163 | 6 ft. | 476 | 408 | 357 | 317 | 286 | 266 | 228 | 200 | 177 | 160 |
| 11 ft. | 329 | 282 | 247 | 219 | 197 | 224 | 192 | 168 | 149 | 134 | 7 ft. | 348 | 298 | 261 | 232 | 209 | 192 | 165 | 144 | 128 | 115 |
| 12 ft. | 276 | 237 | 207 | 184 | 166 | 182 | 156 | 137 | 121 | 109 | 8 ft. | 266 | 228 | 200 | 177 | 160 | 128 | 110 | 96 | 85 | 77 |
| 13 ft. | 234 | 201 | 176 | 156 | 140 | 142 | 122 | 107 | 95 | 85 | 9 ft. | 209 | 179 | 157 | 139 | 125 | 89 | 76 | 67 | 59 | 53 |
| 14 ft. | 202 | 173 | 152 | 135 | 121 | 113 | 97 | 85 | 75 | 68 | 10 ft. | 155 | 133 | 116 | 103 | 93 | 64 | 55 | 48 | 43 | 38 |
| 15 ft. | 164 | 141 | 123 | 109 | 98 | 90 | 77 | 68 | 60 | 54 | 11 ft. | 115 | 99 | 86 | 77 | 69 | 47 | 40 | 35 | 31 | 28 |
| 16 ft. | 134 | 115 | 101 | 89 | 80 | 74 | 63 | 56 | 49 | 44 | 12 ft. | 88 | 75 | 66 | 59 | 53 | 35 | 30 | 26 | 23 | 21 |
| 17 ft. | 110 | 94 | 83 | 73 | 66 | 61 | 52 | 46 | 41 | 37 | 13 ft. | 68 | 58 | 51 | 45 | 41 | 27 | 23 | 20 | 18 | 16 |
| 18 ft. | 93 | 80 | 70 | 62 | 56 | 50 | 43 | 38 | 33 | 30 | 14 ft. | 54 | 46 | 41 | 36 | 32 | x | x | x | x | x |
| 19 ft. | 77 | 66 | 58 | 51 | 46 | 42 | 36 | 32 | 28 | 25 | 15 ft. | 43 | 37 | 32 | 29 | 26 | x | x | x | x | x |
| 20 ft. | 66 | 57 | 50 | 44 | 40 | 35 | 30 | 26 | 23 | 21 | 16 ft. | 35 | 30 | 26 | 23 | 21 | x | x | x | x | x |

Safe loads are **net** safe loads per square foot—weight of joists themselves has been deducted. Stresses used are for **No. 1 Dense Dimension**—1,700 lbs. Horizontal shear—150 lbs. Loads

all fall within shear limits. Loads below heavy line are governed by $E = 1,600,000$ and will produce deflection less than span $"/360$.

NOTE TO SPECIFICATION

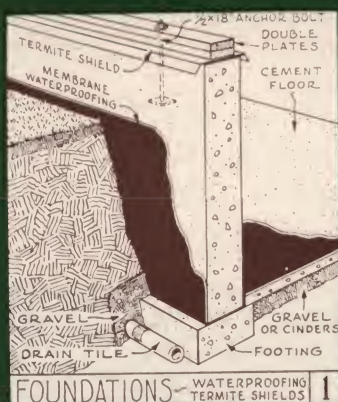
WRITERS: MANDATORY

All material furnished under these specifications for carpentry, flooring, finishing, woodwork, etc., shall bear the Arkansas Soft Pine trade-mark and SPIB grade mark.

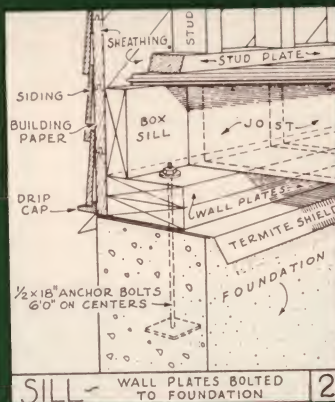


TO BUILD FOR PERMANENCE

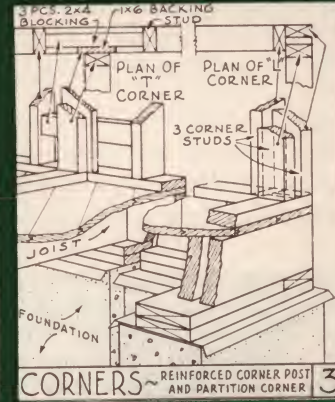
Follow these
12 CARDINAL
CONSTRUCTION
Rules . . . ➡



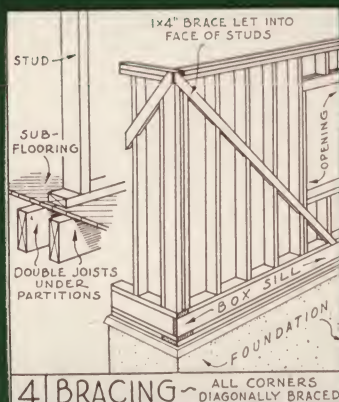
FOUNDATIONS - WATERPROOFING TERMITE SHIELDS 1



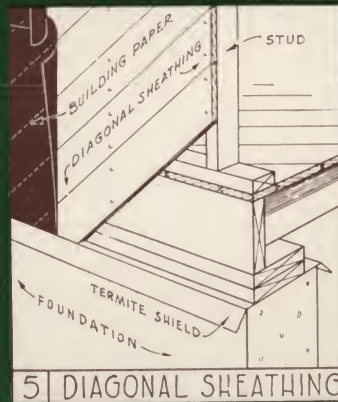
SILL - WALL PLATES BOLTED TO FOUNDATION 2



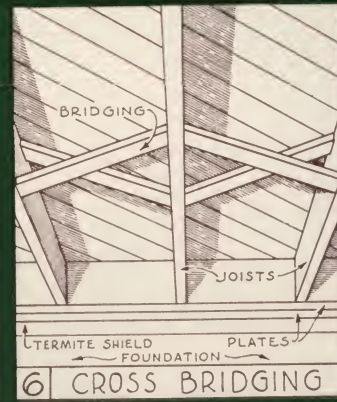
CORNERS - REINFORCED CORNER POST AND PARTITION CORNER 3



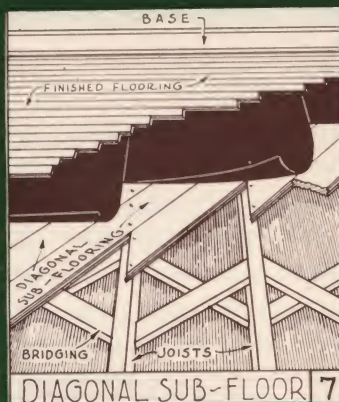
4 BRACING - ALL CORNERS DIAGONALLY BRACED



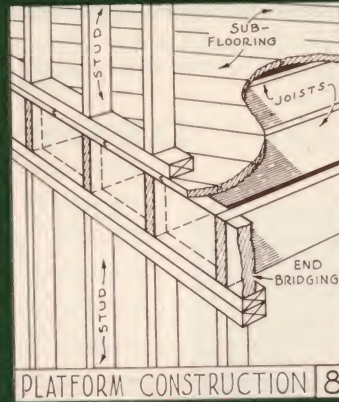
5 DIAGONAL SHEATHING



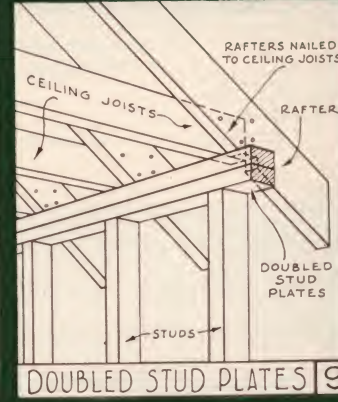
6 CROSS BRIDGING



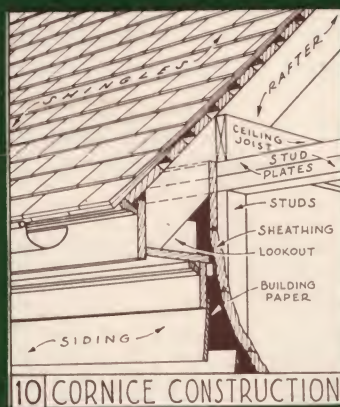
DIAGONAL SUB-FLOOR 7



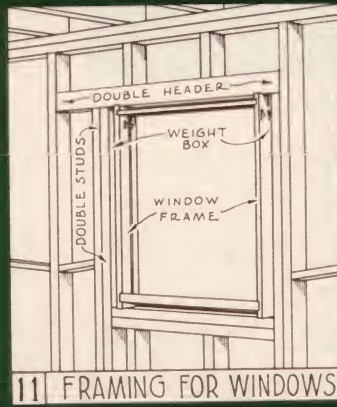
PLATFORM CONSTRUCTION 8



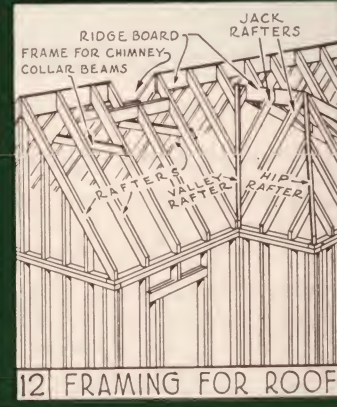
DOUBLED STUD PLATES 9



10 CORNICE CONSTRUCTION



11 FRAMING FOR WINDOWS



12 FRAMING FOR ROOF

Center-Matched SHEATHING . .

Center-matched sheathing, which is surfaced two sides, is available in No. 1, No. 2 and No. 3 grades. This is an Arkansas Soft Pine kiln-dried material, running 20" and longer, furnished in bundles when end-matched; and in plain end in random lengths, not bundled. Particular care should be taken, when using end-matched for sub-

flooring or roof sheathing, to be sure that each board may be placed so that it is nailed to at least two joists.

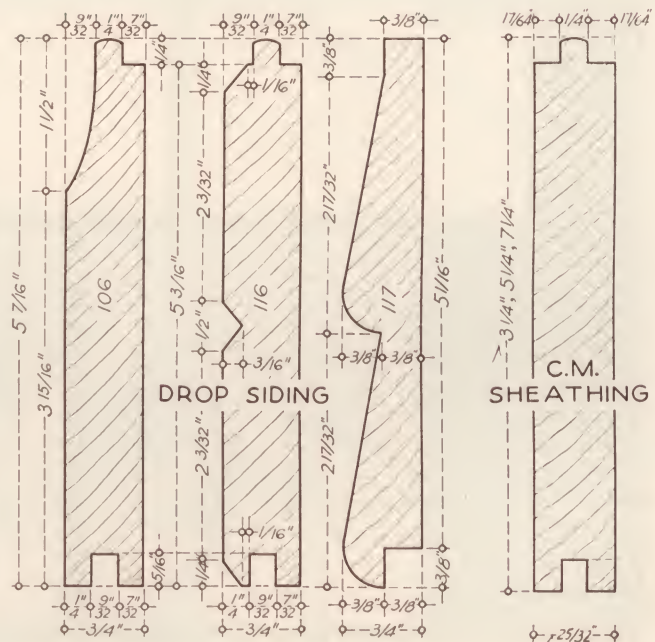
End-matching allows the use of this material at considerable saving in labor and time as cutting is necessary only at the end of each course and nailing on consequently is much more rapid.



Center and end-matched sheathing disregards stud centers, goes on $\frac{1}{3}$ faster, provides a flush surface; supplies high insulation factor at no extra cost (See Page 6).

. . and DROP SIDING

Arkansas Soft Pine drop siding is produced in many patterns of which those detailed on this page are currently the most popular. However, there are many others of standard design with which builders generally are familiar. Any of them may be had in Arkansas Soft Pine by specifying the desired pattern numbers. Drop siding is used both with under sheathing or without, where economy requires. When used with it, particularly where center and end-matched sheathing (see above illustration) forms the under sheathing, the result is an exterior wall of exceptional strength, as well as high insulation value.



End-Matched and Plain End PINE FLOORING . . .

As a natural complement to interior woodwork of Arkansas Soft Pine, pine floors are particularly appropriate.

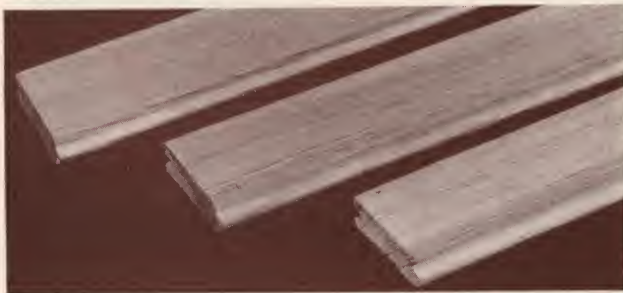
Differing from the texture of that used for woodwork and paneling, rough lumber from which flooring material is produced usually is cut from nearer the center of the butt log. This area of the tree growth is much harder and more dense than the outer circumference which provides material for woodwork.

There are various grades of this flooring, each of which has its proper use. Those best adapted to long service are Edge Grain in clear stock in

"B" or "C" grade, and preferably end-matched. Edge grain provides that the direction of the grain in the wood shall be at right angles to the wearing surface of the floor . . . that is, "quarter-sawn."

Edge grain flooring will vary slightly in color, but affords hard wearing surfacing for all around use. The end-matched feature is to be preferred to the plain or butted end, since it provides a completely integrated floor, afforded by the continuous matching of the strips on the ends, as well as sides. By this means, tendency to squeaking joints is minimized and the finished surface will stay mirror-smooth permanently.

Finish Flooring of ARKANSAS SOFT PINE . .



Plain-End Edge Grain Flooring

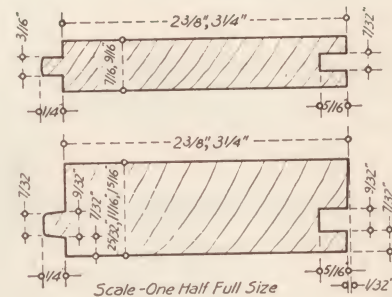
GRADES OF PLAIN-END FLOORING

The grades usually specified in good construction are either "B" or "C" flooring. The "B" grade consists of pieces having a very limited number of minor defects on the face side in standard lengths of 4 to 20 feet. "C" flooring consists of pieces having medium to serious appearance defects but none which affect the mechanical soundness of the wood, is suitable for use under carpets or linoleum or out-of-the-way places, and is milled in lengths of 4 to 20 feet. No. 2 admits all pieces that will not grade as good as "C" and which can be used as low-cost floors without waste of more than 10% of the length of any piece.

EDGE GRAIN FLOORING. Edge Grain, Rift Grain, Vertical Grain or Quarter Sawn flooring receive applied finishes evenly and are most durable.

FLAT GRAIN FLOORING. Flat Grain Plain Sawn or Slash Grain flooring is suitable for general flooring use where strict economy is necessary.

HEART FACE FLOORING. If unusual durability and uniform color are required, Heart Face flooring is free from sapwood on the face side. It is unusually decay resistant.



Scale - One Half Full Size

SPECIFICATIONS

Specifications to be complete must clearly state a choice in the following items:

1. Plain-end or End-matched.
2. Grade.
3. Proportion of Heart Face.
4. Method of sawing, i.e., edge or flat grain.
5. Face width and thickness.



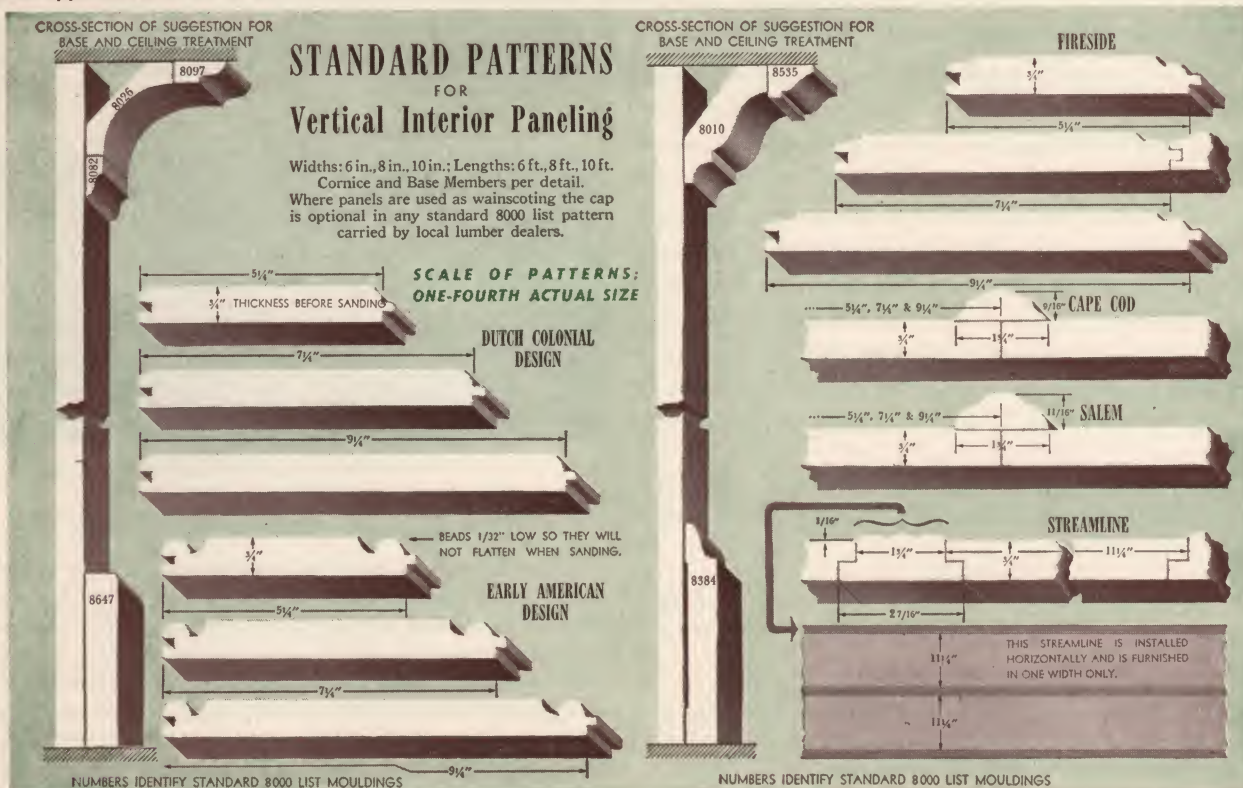
End-Matched Edge Grain Flooring

GRADES OF END-MATCHED

Grades are the same as in Plain-end flooring above. Standard lengths are 1 to 8 feet nested in bundles. In using End-matched material, the carpenter does not need to saw except when he reaches the end of each course. Thus, practically 100% of the flooring material is used and a large part of waste labor is eliminated. Where end joints occur, they are permanently maintained flush with each other and adjoining pieces.



Arkansas Soft Pine with its fine grain, soft texture, light weight and freedom from pitch, works easily to accurate detail by machine or hand tools. . . . It cuts clean without splintering; contours match exactly at miters and joints. . . . It nails without splitting. Expertly seasoned to correct moisture content, it doesn't shrink, swell or open up. . . . It holds paint, stain, and wax finishes, free from bleeding, discoloration or raised grain. Primers are absorbed evenly and become integral with the wood's fiber. . . . As clear pine paneling, it enhances transparent finishes with the beauty of its natural figure. . . . It protects each installation with enduring good appearance and service.



SATIN-LIKE INTERIOR TRIM AND PANELING . . .
BEAUTY FOR EVERY ROOM



• For carrying out various ideas in woodwork, both in pattern and finishing, Arkansas Soft Pine Satin-like Interior Trim and Paneling afford an unlimited choice. The rooms illustrated here are typical of painted and enameled trim and also show a quaint paneling design in transparent "honey" color. A complete book on woodwork and paneling will be sent on request mailed to the address on Page Thirty-Six.



"SUEDE" FINISH EFFECT

USING DU PONT PENETRATING WOOD FINISH

Du Pont Penetrating Wood Finish is intended for use on wood trim, paneling, doors, etc. It can be applied to new, or to old wood surfaces (if freshly sanded or scraped). It differs from the usual wood

varnishes in that it penetrates the pores and becomes an actual part of the wood itself, adding greatly to its beauty and wear-resisting qualities.

LIGHT COLOR

First Coat: Apply Du Pont Penetrating Wood Finish, to each gallon of which has been added one-third of a gallon of Du Pont Oil Stain, Light Oak. Apply with a generous wet coat, by brush or rag. Completely remove excess, after approximately fifteen minutes, by wiping clean with clean rags. Allow to dry six to eight hours, and sand lightly with 7/0 sandpaper.

Second Coat: Apply second coat in same manner as first, and after approximately ten minutes, completely remove excess by wiping clean with clean rags. Allow to dry overnight, and burnish with 3/0 steel wool. If more depth of finish is desired, apply three or more coats of Du Pont Self-Polishing Wax.

MEDIUM LIGHT

First Coat: Apply Du Pont Penetrating Wood Finish, to each gallon of which has been added one-third of a gallon of equal parts Du Pont Light Oak and Walnut Oil Stain. Apply with a generous wet coat, by brush or rag. Completely remove excess, after approximately fifteen minutes, by wiping clean with clean rags. Allow to dry six to eight hours, and sand lightly with 7/0 sandpaper.

Second Coat: Apply second coat in same manner as first, and after approximately ten minutes, completely remove excess by wiping clean with clean rags. Allow to dry overnight, and burnish with 3/0 steel wool. If more depth of finish is desired, apply three or more coats of Du Pont Self-Polishing Wax.

HONEY COLOR

First Coat: Apply Du Pont Penetrating Wood Finish, to each gallon of which has been added one-third of a gallon of equal parts Du Pont Light Oak and Maple Oil Stain. Apply with a generous wet coat, by brush or rag. Completely remove excess, after approximately fifteen minutes, by wiping clean with clean rags. Allow to dry six to eight hours, and sand lightly with 7/0 sandpaper. **Second Coat:** Apply second coat in same manner as first, and after approximately ten minutes, completely remove excess by wiping clean with clean rags. Allow to dry overnight, and burnish with 3/0 steel wool. If more depth of finish is desired, apply three or more coats of Du Pont Self-Polishing Wax.

Du Pont finishes may be secured from local retail paint and varnish dealers anywhere in the United States.



"I like to work on Arkansas Soft Pine trim. There's no pitch in it, and its soft texture is just right for absorbing the finish. That's one reason you never have trouble with checking or fading."

USE QUALITY FINISHES ONLY

Next to selection of the wood itself, first quality paints and finishes applied according to correct specifications are imperative. The following specifications for finishing Arkansas Soft Pine have been prepared in collaboration with the representative paint and varnish makers named in the acknowledgments. Their products are available

through responsible local paint and varnish and retail lumber dealers. While the products of these concerns are not endorsed to the exclusion of those of other representative manufacturers, they are published as a convenience affording proved, trustworthy specifications.

Finishing Arkansas Soft Pine Woodwork

C O N D E N S E D S P E C I F I C A T I O N S

ENAMEL FINISH

Gloss: 1 coat P&L Interior Trim Primer; 1 coat Vitralite Enamel Undercoating; 2 coats Vitralite Enamel Gloss.
Eggshell: 1 coat P&L Interior Trim Primer; 1 coat Vitralite Enamel Undercoating; 2 coats Vitralite Enamel Eggshell.

ENAMEL FINISH

(For a less expensive finish)

Gloss: 1 coat P&L Interior Trim Primer; 1 coat Vitralite Enamel Undercoating; 1 coat Vitralite Enamel Gloss.
Eggshell: 1 coat P&L Interior Trim Primer; 1 coat Vitralite Enamel Undercoating; 1 coat Vitralite Enamel Eggshell.

STAINED, VARNISH FINISH WOODWORK

Gloss: 1 coat P&L Oil Stain; 1 coat pure white shellac; 2 coats "38" Pale Trim Varnish Gloss.
Satin Finish: 1 coat P&L Oil Stain; 1 coat pure white shellac; 1 coat "38" Pale Trim Varnish Gloss; 1 coat "38" Pale Trim Varnish Stain.

Dull Finish: 1 coat P&L Oil Stain; 1 coat pure white shellac; 1 coat "38" Pale Trim Varnish Gloss; 1 coat "38" Pale Trim Varnish Dull.
Flat Finish: 1 coat P&L Oil Stain; 1 coat pure white shellac; 1 coat "38" Pale Trim Varnish Flat.

FOR FLOORS

Gloss: 1 coat P&L Oil Stain; 3 coats "61" Floor Varnish Clear Gloss.

Satin Finish: 1 coat P&L Oil Stain; 2 coats "61" Floor Varnish Clear Gloss; 1 coat "61" Floor Varnish Satin.

Dull Finish: 1 coat P&L Oil Stain; 2 coats "61" Floor Varnish Gloss; 1 coat "61" Floor Varnish Dull.

NATURAL, VARNISH FINISH WOODWORK

Gloss: 1 coat pure white shellac; 1 coat "38" Pale Trim Varnish Gloss; 1 coat "38" Pale Trim Varnish Gloss.
Satin Finish: 1 coat pure white shellac; 1 coat "38" Pale Trim Varnish Gloss; 1 coat "38" Pale Trim Varnish Satin.

Dull Finish: 1 coat pure white shellac; 1 coat "38" Pale Trim Varnish Gloss; 1 coat "38" Pale Trim Varnish Dull.
Flat Finish: 1 coat pure white shellac; 1 coat "38" Pale Trim Varnish Gloss; 1 coat "38" Pale Trim Varnish Flat.

FOR FLOORS

Gloss: 3 coats "61" Floor Varnish Clear Gloss.

Satin Finish: 2 coats "61" Floor Varnish Clear Gloss; 1 coat "61" Floor Varnish Satin.

Dull Finish: 2 coats "61" Floor Varnish Clear Gloss; 1 coat "61" Floor Varnish Dull.

NOTE: We are indebted to Pratt & Lambert, Inc., the well known paint and varnish makers, for the above specifications. They will be glad to answer any questions regarding the finishing of Arkansas Soft Pine. Pratt & Lambert, Inc., 73-97 Tonawanda Street, Buffalo, New York.

TABLE OF BOARD MEASURE

| SIZE IN INCHES | LENGTH IN FEET | | | | | | | | | | | |
|----------------------|----------------|-----|---------|---------|--------|---------|---------|-----|---------|---------|--------|---------|
| | 10 | 12 | 14 | 16 | 18 | 20 | 22 | 24 | 26 | 28 | 30 | 32 |
| 2 x 4 | 6 2/3 | 8 | 9 1/3 | 10 2/3 | 12 | 13 1/3 | 14 2/3 | 16 | 17 1/3 | 18 2/3 | 20 | 21 1/3 |
| 2 x 6 | 10 | 12 | 14 | 16 | 18 | 20 | 22 | 24 | 26 | 28 | 30 | 32 |
| 2 x 8 | 13 1/3 | 16 | 18 2/3 | 21 1/3 | 24 | 26 2/3 | 29 1/3 | 32 | 34 2/3 | 37 1/3 | 40 | 42 2/3 |
| 2 x 10 | 16 2/3 | 20 | 23 1/3 | 26 2/3 | 30 | 33 1/3 | 36 2/3 | 40 | 43 1/3 | 46 2/3 | 50 | 53 1/3 |
| 2 x 12 | 20 | 24 | 28 | 32 | 36 | 40 | 44 | 48 | 52 | 56 | 60 | 64 |
| 2 x 14 | 23 1/3 | 28 | 32 2/3 | 37 1/3 | 42 | 46 2/3 | 51 1/3 | 56 | 60 2/3 | 65 1/3 | 70 | 74 2/3 |
| 2 x 16 | 26 2/3 | 32 | 37 1/3 | 42 2/3 | 48 | 53 1/3 | 58 2/3 | 64 | 69 1/3 | 74 2/3 | 80 | 85 1/3 |
| 2 1/2 x 12 | 25 | 30 | 35 | 40 | 45 | 50 | 55 | 60 | 65 | 70 | 75 | 80 |
| 2 1/2 x 14 | 29 1/6 | 35 | 40 5/6 | 46 2/3 | 52 1/2 | 58 1/2 | 64 1/6 | 70 | 75 5/6 | 81 2/3 | 87 1/2 | 93 1/3 |
| 2 1/2 x 16 | 33 1/3 | 40 | 46 2/3 | 53 1/3 | 60 | 66 2/3 | 73 1/3 | 80 | 86 2/3 | 93 1/3 | 100 | 106 2/3 |
| 3 x 6 | 15 | 18 | 21 | 24 | 27 | 30 | 33 | 36 | 39 | 42 | 45 | 48 |
| 3 x 8 | 20 | 24 | 28 | 32 | 36 | 40 | 44 | 48 | 52 | 56 | 60 | 64 |
| 3 x 10 | 25 | 30 | 35 | 40 | 45 | 50 | 55 | 60 | 65 | 70 | 75 | 80 |
| 3 x 12 | 30 | 36 | 42 | 48 | 54 | 60 | 66 | 72 | 78 | 84 | 90 | 96 |
| 3 x 14 | 35 | 42 | 49 | 56 | 63 | 70 | 77 | 84 | 91 | 98 | 105 | 112 |
| 3 x 16 | 40 | 48 | 56 | 64 | 72 | 80 | 88 | 96 | 104 | 112 | 120 | 128 |
| 4 x 4 | 13 1/3 | 16 | 18 2/3 | 21 1/3 | 24 | 26 2/3 | 29 1/3 | 32 | 34 2/3 | 37 1/3 | 40 | 42 2/3 |
| 4 x 6 | 20 | 24 | 28 | 32 | 36 | 40 | 44 | 48 | 52 | 56 | 60 | 64 |
| 4 x 8 | 26 2/3 | 32 | 37 1/3 | 42 2/3 | 48 | 53 1/3 | 58 2/3 | 64 | 69 1/3 | 74 2/3 | 80 | 85 1/3 |
| 4 x 10 | 33 1/3 | 40 | 46 2/3 | 53 1/3 | 60 | 66 2/3 | 73 1/3 | 80 | 86 2/3 | 93 1/3 | 100 | 106 2/3 |
| 4 x 12 | 40 | 48 | 56 | 64 | 72 | 80 | 88 | 96 | 104 | 112 | 120 | 128 |
| 4 x 14 | 46 2/3 | 56 | 65 1/3 | 74 2/3 | 84 | 93 1/3 | 102 2/3 | 112 | 121 1/3 | 130 2/3 | 140 | 149 1/3 |
| 6 x 6 | 30 | 36 | 42 | 48 | 54 | 60 | 66 | 72 | 78 | 84 | 90 | 96 |
| 6 x 8 | 40 | 48 | 56 | 64 | 72 | 80 | 88 | 96 | 104 | 112 | 120 | 128 |
| 6 x 10 | 50 | 60 | 70 | 80 | 90 | 100 | 110 | 120 | 130 | 140 | 150 | 160 |
| 6 x 12 | 60 | 72 | 84 | 96 | 108 | 120 | 132 | 144 | 156 | 168 | 180 | 192 |
| 6 x 14 | 70 | 84 | 98 | 112 | 126 | 140 | 154 | 168 | 182 | 196 | 210 | 224 |
| 6 x 16 | 80 | 96 | 112 | 128 | 144 | 160 | 176 | 192 | 208 | 224 | 240 | 256 |
| 8 x 8 | 53 1/3 | 64 | 74 2/3 | 85 1/3 | 96 | 106 2/3 | 117 1/3 | 128 | 138 2/3 | 149 1/3 | 160 | 170 2/3 |
| 8 x 10 | 66 2/3 | 80 | 93 1/3 | 106 2/3 | 120 | 133 1/3 | 146 2/3 | 160 | 173 1/3 | 186 2/3 | 200 | 213 1/3 |
| 8 x 12 | 80 | 96 | 112 | 128 | 144 | 160 | 176 | 192 | 208 | 224 | 240 | 256 |
| 8 x 14 | 93 1/3 | 112 | 130 2/3 | 149 2/3 | 168 | 186 2/3 | 205 1/3 | 224 | 242 2/3 | 261 1/3 | 280 | 298 2/3 |
| 10 x 10 | 83 1/3 | 100 | 116 2/3 | 133 1/3 | 150 | 166 2/3 | 183 1/3 | 200 | 216 2/3 | 233 1/3 | 250 | 266 2/3 |
| 10 x 12 | 100 | 120 | 140 | 160 | 180 | 200 | 220 | 240 | 260 | 280 | 300 | 320 |
| 10 x 14 | 116 2/3 | 140 | 163 1/3 | 186 2/3 | 210 | 233 1/3 | 256 2/3 | 280 | 303 1/3 | 326 2/3 | 350 | 373 1/3 |
| 10 x 16 | 133 1/3 | 160 | 186 2/3 | 213 1/3 | 240 | 266 2/3 | 293 1/3 | 320 | 346 2/3 | 373 1/3 | 400 | 426 2/3 |
| 12 x 12 | 120 | 144 | 168 | 192 | 216 | 240 | 264 | 288 | 312 | 336 | 360 | 384 |
| 12 x 14 | 140 | 168 | 196 | 224 | 252 | 280 | 308 | 336 | 364 | 392 | 420 | 448 |
| 12 x 16 | 160 | 192 | 224 | 256 | 288 | 320 | 352 | 384 | 416 | 448 | 480 | 512 |
| 14 x 14 | 163 1/3 | 196 | 228 2/3 | 261 1/3 | 294 | 326 2/3 | 359 1/3 | 392 | 424 2/3 | 457 1/3 | 490 | 522 2/3 |
| 14 x 16 | 186 2/3 | 224 | 261 1/3 | 298 2/3 | 336 | 373 1/3 | 410 2/3 | 448 | 485 1/3 | 522 2/3 | 560 | 597 1/3 |

AVERAGE WEIGHT OF ARKANSAS SOFT PINE WHEN WORKED TO STANDARD SIZE

| DRY | | |
|--|-------|--|
| *Flooring, 2 5/8 x 2 3/8 | 1,800 | |
| Flooring, 3 5/8 x 3 1/4 | 1,900 | |
| Flooring, 3 5/8 x 5 1/4 | 2,100 | |
| Ceiling, 5/16 | 900 | |
| Ceiling, 7/16 | 1,100 | |
| Ceiling, 9/16 | 1,400 | |
| Ceiling, 1 1/16 | 1,700 | |
| Partition, 3/4 | 1,800 | |
| Siding, from inch stock | 1,000 | |
| Siding, from 1 1/4-inch stock | 1,250 | |
| Drop Siding, 3/4 and Moulded Casing | 1,800 | |
| Moulded Base | 2,000 | |
| Finish, inch S 1 S or S 2 S, 2 5/8 | 2,400 | |
| Finish, 1 1/4, 1 1/2 and 2 inch, S 1 S or S 2 S | 2,700 | |
| Finish, 1, 1 1/4, 1 1/2 and 2 inch, rough | 3,200 | |
| Industrial Standard Finish, 1 inch, S 1 S or S 2 S to 1 3/16 | 2,500 | |
| Industrial Standard Finish, 2 inch, S 1 S or S 2 S to 1 3/4 | 2,900 | |
| SHIPPING DRY | | |
| 1x4, S 2 S and C. M., 2 5/8 | 2,100 | |
| 1x6, S 1 S and C. M., 2 5/8 | 2,200 | |
| Shiplap and D. & M., 2 5/8 | 2,300 | |
| Grooved Roofing | 2,300 | |
| Common Boards and Fencing, 1x4, 6, 8, 10 inch, S 1 S or S 2 S to 2 5/8 | 2,400 | |
| Common Boards, 1x12, S 1 S or S 2 S to 2 5/8 | 2,500 | |
| Industrial Standard Boards, 1 inch, 8 to 12 inches, 1 3/8 | 2,600 | |
| Common Boards and Fencing, 1x4, 6, 8, 10 inch, rough | 3,300 | |
| Common Boards, 1x12, rough | 3,400 | |
| 2x4, 2x6 and 2x8, S 1 S 1 E to 1 5/8 | 2,500 | |
| 2x4, 2x6 and 2x8, rough | 3,300 | |
| 2x10 and 2x12, S 1 S 1 E to 1 5/8 | 2,600 | |
| 2x10 and 2x12, rough | 3,300 | |
| Industrial Standard 2x4, 2x6, 2x8, 1 3/4 | 2,700 | |
| Industrial Standard 2x10, 2x12, 1 3/4 | 2,800 | |
| GREEN | | |
| 2x14 and 3x12, S 1 S 1 E | 3,500 | |
| 2x14 and 3x12, rough | 4,200 | |
| 3x4 and 6x6, S 1 S 1 E | 3,500 | |
| 4x4 and 6x8, rough | 4,200 | |
| 8x8 and over, rough | 4,200 | |

* For hollow back flooring, ceiling and drop siding deduct 100 lbs.

PERPETUAL SUPPLY



The United States Department of Commerce, in its publication "American Southern Pine," says, "Today's forest situation in the South, particularly the trend toward intelligent forest practices, indicates that an adequate supply of southern pine lumber will be available for the needs of future generations."

WHERE AND HOW TO GET

ARKANSAS SOFT PINE

Arkansas Soft Pine attains perfection in the southern and western sections of the state for which it is named. Favorable geological and climatic elements contributing to this condition are soil properties, rainfall and drainage.

The Arkansas Soft Pine Bureau is composed exclusively of manufacturers whose timber and sawmills are located in this region. The products of these companies, whose names appear below, bear the registered trade-mark shown above. When purchasing lumber and woodwork identified by this endorsement, you are assured of soft texture, uniform absorbing qualities, accurate manufacture, scientific drying and seasoning and merchandising methods adhering to ethical standards. Arkansas Soft Pine is conveniently available at local lumber dealers and millwork factories. It is distributed principally in the territory east of the Rockies.



BRADLEY LUMBER COMPANY OF ARKANSAS
WARREN, ARKANSAS

FORDYCE LUMBER COMPANY
FORDYCE, ARKANSAS

CROSSETT LUMBER COMPANY
A DIVISION OF THE CROSSETT CO.
CROSSETT, ARKANSAS

FROST LUMBER INDUSTRIES
FOREST PRODUCTS DIVISION OF OLIN
INDUSTRIES, INC., SHREVEPORT, LOUISIANA
PLANT: HUTTIG, ARKANSAS

OZAN LUMBER COMPANY
PRESCOTT, ARKANSAS

SOUTHERN LUMBER COMPANY
WARREN, ARKANSAS

COMPOSING THE

ARKANSAS SOFT PINE BUREAU

BOYLE BUILDING, LITTLE ROCK, ARKANSAS



Over 4,000 dealers carry Arkansas Soft Pine and furnish reliable service in meeting home builders' requirements. Consult the lumber dealer of your choice. He is a specialist in building materials and their use. His experience and counsel can be invaluable, and he will welcome the opportunity to serve you.

CREDIT LINES

Page 5, Kiln Control Panel picture, courtesy Moore Dry Kiln Co., Jacksonville, Fla.
Page 5, Moisture Meter illustration, courtesy C. J. Tagliabue Corp., Newark, N. J.

Produced by BROOKS-POLLARD COMPANY
Little Rock, Arkansas Printed in U.S.A.



ARKANSAS

Soft Pine



HIGH INSULATION FACTOR SHEATHING • CERTIFIED STRESS VALUE FRAMING • SATIN-LIKE INTERIOR TRIM AND PANELING



ARKANSAS SOFT PINE BUREAU
LITTLE ROCK, ARKANSAS

INTERIOR TRIM AND MOULDINGS

Satin-like Interior Trim

Distinguishing characteristics of Arkansas Soft Pine upper grades, from which trim and mouldings are produced, are: freedom from pitch, close grain, elastic fiber, attractive figure. These qualify it, in particular, for interior trim, mouldings and paneling, because: freedom from pitch promotes even absorption of applied finish and avoids discoloration that often occurs when pitch is present; close grain dispenses with "pull" between summer and winter ring growth, preventing raised grain; elastic fiber springs back, all but covering counter-sunk finishing nails, thus minimizing putty spots on the finished surface; attractive figure provides decorative qualities brought out by transparent finishes.

Specified Moisture Content

These inherent advantages are further enhanced during manufacture by drying and seasoning, to specified moisture content. This refinement is accomplished in automatically controlled cross circulation dry kilns. By this method of conditioning, the natural "life" of the wood is retained, a factor essential to stabilized woodwork.

What Species It Is

Commercial southern pine is the general name for a number of closely related species comprising: Shortleaf, *Pinus echinata*; Longleaf, *Pinus palustris*; Loblolly, *Pinus taeda*; Slash, *Pinus caribaea*.

Where It Grows

Arkansas Soft Pine is the soft-textured, easily worked pine, produced from shortleaf (*Pinus echinata*) stands in southern and western Arkansas. It is identified by registered trade-mark stamped, labeled or tagged on the material.

Typical STANDARD PATTERNS

Identifying pattern numbers are those of the Standard 8000 Moulding List with which lumber dealers and mill-work houses are familiar and from whom these and other patterns are conveniently available.

SCALE OF PATTERNS:
ONE-HALF ACTUAL SIZE



INTERIOR PANELING

Mellow Pine Paneling

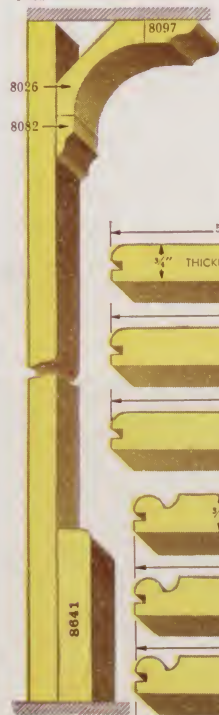
Here's what Uncle Sam says about the wood: "Shortleaf pine in Arkansas is of a higher grade than that grown in other regions. It is soft, of good quality, and the annual rings show well in the grain." It is these qualities which give Arkansas

Soft Pine unique advantages as paneling. Arkansas Soft Pine paneling is available in a range of patterns and sizes of which those illustrated are indicative. Material is particularly suited to finishing in a range of transparent effects from blond to mellow honey color. Approved finishing specifications will be furnished promptly on request.



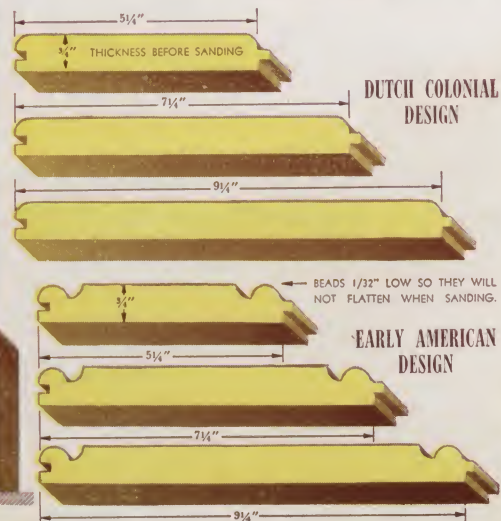
Typical installation of Arkansas Soft Pine Paneling in Dutch Colonial pattern.

CROSS-SECTION OF SUGGESTION FOR
BASE AND CEILING TREATMENT



SPECIMEN PATTERNS FOR Vertical Interior Paneling

Widths: 6 in., 8 in., 10 in.;
Lengths: 6 ft., 8 ft., 10 ft.
Cornice and Base Members per Detail.
Where panels are used as wainscoting the cap is optional in any standard 8000 list pattern.



NUMBERS IDENTIFY STANDARD 8 000 LIST MOULDINGS

EXTERIOR SHEATHING

High Insulation Factor

Thoroughly seasoned wood, being a non-conductor of heat and cold, is a *natural insulation*. Example: On an outside wall, Arkansas Soft Pine sheathing of standard $\frac{5}{8}$ " thickness keeps out as much heat as 5" of common brick, 9" of face brick, 12" of stone or $13\frac{1}{2}$ " of concrete.



Maximum Structural Stiffness

Available in center-matched standard lengths or center and end-matched in bundles.

Center-matched sheathing, which is surfaced two sides, is available in No. 2 and No. 3 grades. This is an Arkansas Soft Pine kiln dried material, running 20" and longer, furnished in bundles when end-matched; and in plain end and random lengths, not bundled. Exercise care when using end-matched for subflooring or roof sheathing, to see that each board is nailed to at least two joists.



Center and End Matched Sheathing goes on in $\frac{1}{3}$ less time, requiring no cut-back at stud centers. Result: an integrated wall of exceptional strength and high insulation value.

Grading and Grade-Marks

Each grade of lumber is more than the individual manufacturer's idea of the respective grades. Grading standards represent the composite opinion of all representative manufacturers within the region where the species is grown and produced. Application of grading and grade-marking, under long established practices, is supervised by an industry-wide authorized agency, in this instance, the Southern Pine Inspection Bureau, New Orleans, Louisiana. All Arkansas Soft Pine is graded and grade-marked in accordance with the requirements of that organization. Arkansas Soft Pine qualifies for Federal Specifications MM-L-751b.

Specimen Official Grade Mark



Left to right, symbols are initials of the Southern Pine Inspection Bureau, grade, stress value, identifying number of the mill producing the stock.

GRADES TO SPECIFY **

| Use | Grade Recommended |
|---|--|
| Sills on foundation wall, floor more than 18" above ground | No. 1 Dimension |
| Sills on foundation wall, floor within 18" of ground | No. 1 Dense Dimension (*) or (†) |
| Sills on posts or piers, floor more than 18" above ground | No. 1 Dense Timbers |
| Sills on posts or piers, floor within 18" of ground | No. 1 Dense Timbers (*) or (†) |
| Basement posts or columns | No. 1 Dense Timbers |
| Girders | No. 1 Dense Timbers, No. 1 Dense Dimension, or No. 1 Dense Laminated |
| Floor joists over 18" above ground | No. 1 Dense Timbers |
| Floor joists within 18" of ground | No. 1 Dense Dimension or No. 2 (††) |
| Roof rafters and ceiling joists | No. 1 or No. 2 Dimension (††) |
| Studding | No. 1 Dense, No. 1 or No. 2 Dimension (††) |
| Sub-flooring and sheathing | Arkansas Soft Pine Center-Matched, Square Edge Boards or Shiplap in No. 2 or No. 3 Grade |
| Finish flooring exposed | B & Better Edge Grain End-matched or Random length Plain end |
| Finish flooring to receive linoleum or carpet | No. 1 Common or No. 2 Common Flat Grain $\frac{1}{8}$ " thickness |
| Porch flooring | B & Better Heart Edge Grain Plain End or B & Better Flat Grain Plain End, treated |
| Drop siding, interior trim, exterior trim, window and door frames | B & Better |
| Exterior trim | B & Better (Back-primed with white lead or aluminum paint) |

†All Heart. *Preservative treated. **Arkansas Soft Pine is graded according to the Standard Grading Rules of the Southern Pine Inspection Bureau, New Orleans, La. ††Conforms to the higher stress values for No. 2 Dimension, established by the Inspection Bureau in 1948. Grading Rules will be furnished on request to the Arkansas Soft Pine Bureau.

STUDS, JOISTS AND RAFTERS



Representative examples of grade-marked No. 1 and No. 2 dimension.

Cost Economies with No. 2 Dimension

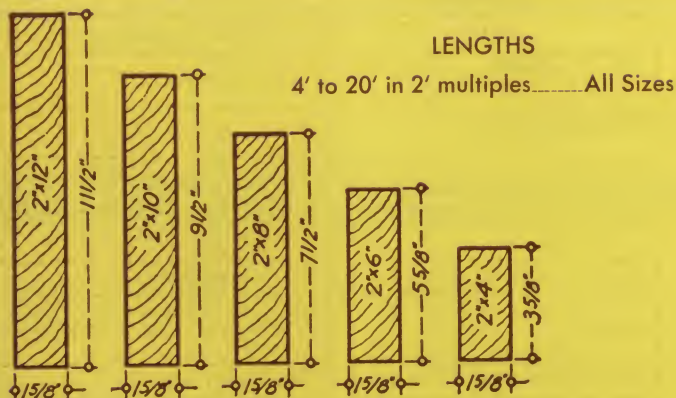
Worth-while savings are recommended through the use of lower-priced grades for framing material which afford adequate strength, i. e., use of the right grade in the right place. Example: the southern pine industry, through the Southern Pine Inspection Bureau to which Arkansas Soft Pine manufacturers subscribe, recently increased official stress values of No. 2 grade for 2x4, 2x6, etc. *This grade, now of closer grain than formerly, provides ample strength for floor joists, studs and rafters at a substantial saving below the price of No. 1.*

Load Bearing Strength

Arkansas Soft Pine possesses adequate strength for all stresses and loads to be expected in the construction of residences, apartments, and commercial buildings of moderate size. Grades below conform to American Lumber Standards for Dense material.

| Grade | Unit Shear* | Bending Extreme Fibre | Modulus Elasticity | Perpendicular Compression |
|----------------------------|-------------|-----------------------|--------------------|---------------------------|
| Dense Select Structural .. | 120 | 2,000 | 1,600,000 | 380 |
| Dense Structural | 120 | 1,800 | 1,600,000 | 380 |
| Dense Structural SE&S | 120 | 1,600 | 1,600,000 | 380 |
| Dense No. 1 Structural .. | 100 | 1,200 | 1,600,000 | 380 |

*Shear values of 150 or 175 lb. may be obtained in any grade by so specifying, without changing any other feature of the grading rule.



ARKANSAS SOFT PINE PRODUCTS

Arkansas Soft Pine is manufactured by representative, major enterprises exclusively. Production embraces all standard soft wood items, notably small timbers, dimension, boards, sheathing, siding, flooring, finishing, mouldings, trim and paneling.

NOTE TO SPECIFICATION WRITERS

MANDATORY—All material furnished under these specifications shall bear the ARKANSAS SOFT PINE trademark. Complete technical data, structural details and illustrated grades are included in the Arkansas Soft Pine Handbook, mailed on request together with Grading Rules.

STRESS VALUES FOR STUDS, JOISTS AND RAFTERS

| SPAN | 2 x 12—1700 F Grade SPACING ON CENTERS | | | | | 2 x 10—1700 F Grade SPACING ON CENTERS | | | | | SPAN | 2 x 8—1700 F Grade SPACING ON CENTERS | | | | | 2 x 6—1700 F Grade SPACING ON CENTERS | | | | |
|--------|---|-----|-----|-----|-----|---|-----|-----|-----|-----|--------|--|-----|-----|-----|-----|--|-----|-----|-----|-----|
| | 12" | 14" | 16" | 18" | 20" | 12" | 14" | 16" | 18" | 20" | | 12" | 14" | 16" | 18" | 20" | 12" | 14" | 16" | 18" | 20" |
| 10 ft. | 400 | 343 | 300 | 267 | 240 | 272 | 233 | 204 | 181 | 163 | 6 ft. | 476 | 408 | 357 | 317 | 286 | 266 | 228 | 200 | 177 | 160 |
| 11 ft. | 329 | 282 | 247 | 219 | 197 | 224 | 192 | 168 | 149 | 134 | 7 ft. | 348 | 298 | 261 | 232 | 209 | 192 | 165 | 144 | 128 | 115 |
| 12 ft. | 276 | 237 | 207 | 184 | 166 | 182 | 156 | 137 | 121 | 109 | 8 ft. | 266 | 228 | 200 | 177 | 160 | 128 | 110 | 96 | 85 | 77 |
| 13 ft. | 234 | 201 | 176 | 156 | 140 | 142 | 122 | 107 | 95 | 85 | 9 ft. | 209 | 179 | 157 | 139 | 125 | 89 | 76 | 67 | 59 | 53 |
| 14 ft. | 202 | 173 | 152 | 135 | 121 | 113 | 97 | 85 | 75 | 68 | 10 ft. | 155 | 133 | 116 | 103 | 93 | 64 | 55 | 48 | 43 | 38 |
| 15 ft. | 164 | 141 | 123 | 109 | 98 | 90 | 77 | 68 | 60 | 54 | 11 ft. | 115 | 99 | 86 | 77 | 69 | 47 | 40 | 35 | 31 | 28 |
| 16 ft. | 134 | 115 | 101 | 89 | 80 | 74 | 63 | 56 | 49 | 44 | 12 ft. | 88 | 75 | 66 | 59 | 53 | 35 | 30 | 26 | 23 | 21 |
| 17 ft. | 110 | 94 | 83 | 73 | 66 | 61 | 52 | 46 | 41 | 37 | 13 ft. | 68 | 58 | 51 | 45 | 41 | 27 | 23 | 20 | 18 | 16 |
| 18 ft. | 93 | 80 | 70 | 62 | 56 | 50 | 43 | 38 | 33 | 30 | 14 ft. | 54 | 46 | 41 | 36 | 32 | x | x | x | x | x |
| 19 ft. | 77 | 66 | 58 | 51 | 46 | 42 | 36 | 32 | 28 | 25 | 15 ft. | 43 | 37 | 32 | 29 | 26 | x | x | x | x | x |
| 20 ft. | 66 | 57 | 50 | 44 | 40 | 35 | 30 | 26 | 23 | 21 | 16 ft. | 35 | 30 | 26 | 23 | 21 | x | x | x | x | x |

Safe loads are net safe loads per square foot—weight of joists themselves has been deducted. Stresses used are for No. 1 Dense Dimension—1,700 lbs. Horizontal shear—150 lbs. Loads all fall within shear limits. Loads below heavy line are governed by $E=1,600,000$ and will produce deflection less than span $"/360$.

WHERE TO BUY . . .

Arkansas Soft Pine is carried regularly by responsible retail lumber dealers and planing mills east of the Rockies. Elsewhere, it may be secured through special orders placed with local suppliers.



ARKANSAS SOFT PINE BUREAU BOYLE BUILDING
LITTLE ROCK, ARKANSAS

